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ABSTRACT

This book presents research on how some innovations in computer visualization are making work and education more favorable to visual thinking. The book exposes many popular myths about conventional intelligence through an examination of the role of visual-spatial strengths and verbal weaknesses in the lives of 11 gifted individuals, including Albert Einstein, Winston Churchill, Thomas Edison, Leonardo da Vinci, and others. It cites research in neuroscience that shows a link between visual talents and verbal difficulties and also discusses new developments in computer technology which herald a significant shift toward the increased use of visual approaches throughout the economy. Specific chapters address dyslexia and learning difficulties from the inside; constellations of traits and some neurological perspectives; speech and nonverbal thoughts; patterns in creativity; images, computers, and mathematics; and patterns, implications, and possibilities for the future. An updated bibliography and expanded resource list are included, which provide contact information for both national and international organizations relating to computer graphics and visualization, dyslexia, creativity, and neuroscience. A gallery of visual images supporting the discussions is also included. (Contains over 600 references.) (CR)

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